

Amendments to the Claims

Please replace the claims with the following:

1. (Currently amended) A method of removing a body of selected material from the interior of a casing extending into a borehole formed in an earth formation, the method comprising:
 - a) lowering a drill bit for further drilling of the borehole, into the casing, the drill bit ~~being constructed in accordance with claim 9 having a longitudinal axis of rotation during operation, the drill bit comprising rock cutting means, at least one protection member for protecting the inner surface of the casing from contact with the rock cutting means, each protection member being sufficiently wear-resistant to effectively clean the casing of cement but of lower hardness than said rock cutting means and being radially movable towards the inner surface of the casing, and control means for applying a radially outward force of controlled magnitude to the protection member;~~
 - b) rotating the drill bit in the casing; and
 - c) operating the control means so as to apply said radially outward force of controlled magnitude to the protection member.
2. (Original) The method of claim 1, whereby the drill bit comprises a reamer arm movable in radial direction relative to said axis of rotation, wherein the rock cutting means and each protection member are provided at the reamer arm, and wherein step c) comprises operating the control means so as to move the reamer arm in radially outward direction relative to the axis of rotation.
3. (Previously presented) The method of claim 1, wherein the control means includes a pump for pumping drilling fluid via a drill string to the drill bit, and wherein step c) comprises operating the pump at a controlled pump rate.

4. (Previously presented) The method of claim 1, wherein the drill bit is axially moved through the casing simultaneously with steps b) and c).
5. (Original) The method of claim 4, further comprising:
before steps b) and c), operating the drill bit to drill a longitudinal bore in said body of selected material thereby forming an annular remainder portion of the body of selected material, and wherein during steps b) and c) the drill bit is axially moved through said longitudinal bore so as to remove the annular remainder portion.
6. (Previously presented) The method of claim 5, wherein during steps b) and c) the drill bit is axially moved in an upward direction through said longitudinal bore.
7. (Previously presented) The method of claim 1, wherein the body of selected material includes a body of cement located in a lower end portion of the casing.
8. (Previously presented) The method of claim 1, wherein the body of selected material extends into a lower end portion of the casing, said lower end portion having a larger inner diameter than a remainder portion of the casing.

9. (Currently amended) A drill bit for drilling a borehole into an earth formation, the drill bit being adapted to remove a body of selected material from the interior of a casing extending into the borehole, whereby during operation the drill bit has a longitudinal axis of rotation, the drill bit comprising rock cutting means, at least one protection member for protecting the inner surface of the casing from contact with the rock cutting means, each protection member being sufficiently wear-resistant to effectively clean the casing of said selected material ~~cement~~ but of lower hardness than said rock cutting means and being radially movable towards the inner surface of the casing, and control means for applying a radially outward force of controlled magnitude to the protection member;

wherein the drill bit further comprises a reamer arm movable in a radial direction relative to said axis of rotation, wherein the rock cutting means and each protection member are provided at the reamer arm;

wherein the control means is arranged to move the reamer arm in radial direction relative to said axis of rotation; and

wherein the reamer arm is provided with gauge protection means for protecting the reamer arm against wear during further drilling of the borehole with the drill bit, and wherein the protection member is arranged on top of the gauge protection means at the radially outward side thereof.

10. (Canceled)

11. (Currently amended) The drill bit of claim 9-10, wherein the reamer arm is provided with releasable locking means for temporarily locking the reamer arm in a radially retracted position thereof.

12. (Original) The drill bit of claim 11, wherein the locking means is releasable by the action of the control means.

13. (Currently amended) The drill bit of claim 9-10, wherein the protection member is formed as an insert in the reamer arm or as an integral part of the reamer arm.

14. (Canceled)
15. (Currently amended) The drill bit of claim 9-14, wherein the gauge protection means and the protection member are integrally formed.
16. (Currently amended) The drill bit of claim 9-10, wherein the protection member has a rounded portion protruding radially outward from the reamer arm.
17. (Previously presented) The drill bit of claim 9, wherein the protection member is formed as a scraper for scraping against said body of selected material.
18. (Previously presented) The drill bit of claim 9, wherein the protection member is adapted to substantially vanish due to wear during drilling into the earth formation with the drill bit.
19. (Previously presented) The drill bit of claim 9, wherein said body of selected material which is to be removed from the casing includes a body of cement located in a lower end portion of the casing.
20. (Canceled)